

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference WBH/PART STR	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/ 03949	International filing date (day/month/year) 11/09/2003	(Earliest) Priority Date (day/month/year) 12/09/2002
Applicant  ARTEMIS INTELLIGENT POWER LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☒ because this figure better characterizes the invention.

1  
☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/03949

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F04B49/06 F04B53/10 F04B7/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 494 236 B (UNIV EDINBURGH) 15 July 1992 (1992-07-15) cited in the application column 2, line 4 -column 2, line 8 column 3, line 11 -column 4, line 12 column 6, line 8 -column 6, line 35 column 7, line 35 -column 7, line 42; claims 1,8; figures	1-10
A,P	EP 1'319 836 A (CATERPILLAR INC) 18 June 2003 (2003-06-18) column 9, line 50 -column 11, line 29 column 11, line 58 -column 12, line 14; figures 1,3	1-10
A	EP 0 501 463 A (NIPPON DENSO CO) 2 September 1992 (1992-09-02) abstract; figures 1,3,4	1-10

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*S\* document member of the same patent family

Date of the actual completion of the international search

26 November 2003

Date of mailing of the international search report

02/12/2003

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/03949

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0494236	B	15-07-1992	EP 0494236 A1	15-07-1992
			AU 6507990 A	28-04-1991
			DE 69024223 D1	25-01-1996
			DE 69024223 T2	04-07-1996
			ZA 9007810 A	27-05-1992
			AU 639213 B2	22-07-1993
			AU 4499089 A	18-04-1990
			AU 641438 B2	23-09-1993
			DE 68917066 D1	01-09-1994
			DE 68917066 T2	19-01-1995
			EP 0361927 A1	04-04-1990
			WO 9003519 A1	05-04-1990
			WO 9105163 A1	18-04-1991
			JP 4501294 T	05-03-1992
			JP 5503335 T	03-06-1993
			NZ 230801 A	25-06-1992
			US 5190446 A	02-03-1993
			US 5259738 A	09-11-1993
			ZA 8907398 A	29-05-1991
EP 1319836	A	18-06-2003	US 2003110765 A1	19-06-2003
			EP 1319836 A2	18-06-2003
EP 0501463	A	02-09-1992	JP 2861429 B2	24-02-1999
			JP 4272471 A	29-09-1992
			DE 69222334 D1	30-10-1997
			DE 69222334 T2	14-05-1998
			EP 0501463 A2	02-09-1992
			US 5277156 A	11-01-1994